

Figure 1

| | | |
|------|---|------|
| 1 | CGGTGGCGCCCGTTCTAGAACTAGTGGATCCCCCGGGATGCAGGAATTCCGGCAGCAGAGAAA | 60 |
| 61 | GTGCGGCGGAAAGTAAGAGGCTCACTGGGGAAGACTGCCGGGATCCAGGTCTCCGGGGTC | 120 |
| 121 | CGCTTTGGCCAGAGGCGCGGAAGGAAGCAGTGCCCGGCGACACTGCACCCATCCCGGCTG | 180 |
| 181 | CTTTTGCTGCGCCCTCTCAGCTTCCCAAGAAAGGCATCGTCATGTGATCATCACCTAAGA | 240 |
| 241 | ACTAGAACATCAGCAGGCCCTTAGAAGCCTCACTCTTGCCCCCTCCCTTTAATATCTCAAA | 300 |
| 301 | GGATGACACTTCTGTGGTGTGTAGTGAGTCTCTACTTTTATGGAATCCTGCAAAGTGATG | 360 |
| | <u>M T L L W C V V S L Y F Y G I L O S D A</u> | |
| 361 | CCTCAGAACGCTGCGATGACTGGGGACTAGACACCATGAGGCAAATCCAAGTGTTTGAAG | 420 |
| | S E R C D D W G L D T M R Q I Q V F E D | |
| 421 | ATGAGCCAGCTCGCATCAAGTGCCCACTCTTTGAACACTTCTTGAAATTCAACTACAGCA | 480 |
| | E P A R I K C P L F E H F L K F N Y S T | |
| 481 | CAGCCCATTCAGCTGGCCTTACTCTGATCTGGTATTGGAATAAGCAGGACCGGGACCTTG | 540 |
| | A H S A G L T L I W Y W T K Q D R D L E | |
| 541 | AGGAGCCAATTAACCTCCGCCTCCCCGAGAACCGCATAGTAAGGAGAAAGATGTGCTGT | 600 |
| | E P I N F R L P E N R I S K E K D V L W | |
| 601 | GGTTCGGGCCCCACTCTCCTCAATGACACTGGCAACTATACCTGCATGTTAAGGAACACTA | 660 |
| | F R P T L L N D T G N Y T C M L R N T T | |
| 661 | CATATTGCAGCAAAGTTGCATTTCCCTTGGAAGTTGTTCAAAAAGACAGCTGTTTCAATT | 720 |
| | Y C S K V A F P L E V V Q K D S C F N S | |
| 721 | CCCCCATGAAACTCCAGTGACATAAAGTATAGTAATGTCATTCAGAGGATCACTT | 780 |
| | P M K L P V H K L Y I E Y G I Q R I T C | |
| 781 | GTCCAAATGTAGATGGATATTTTCTTCCAGTGTCAAACCGACTATCACTTGGTATATGG | 840 |
| | P N V D G Y F P S S V K P T I T W Y M G | |
| 841 | GCTGTTATAAATACAGAATTTTAATAATGTAATACCCGAAGGTATGAACTTGAGTTTCC | 900 |
| | C Y K I Q N F N N V I P E G M N L S F L | |
| 901 | TCATTGCCCTTAATTTCAAATAATGAAATACACATGTGTTGTTACATATCCAGAAAATG | 960 |
| | I A L I S N N G N Y T C V V T Y P E N G | |
| 961 | GACGTACGTTTCATCTCACCAGGACTCTGACTGTAAAGGTAGTAGGCTCTCCAAAAATG | 1020 |
| | R T F H L T R T L T V K V V G S P K N A | |
| 1021 | CAGTGCCCCCTGTGATCCATTCACCTAATGATCATGTGGTCTATGAGAAAGAACAGGAG | 1080 |
| | V P P V I H S P N D H V V Y E K E P G E | |
| 1081 | AGGAGCTACTCATTCCTGTACGGTCTATTTTAGTTTCTGATGGATTCTCGCAATGAGG | 1140 |
| | E L L I P C T V Y F S F L M D S R N E V | |
| 1141 | TTTGGTGGACCATTTGATGGAAAAAACCTGATGACATCACTATTGATGTCACCATTAAAC | 1200 |
| | W W T I D G K K P D D I T I D V T I N E | |
| 1201 | AAAGTATAAGTCATAGTAGAACAGAGATGAACTAGAACTCAGATTTTGAGCATCAAGA | 1260 |
| | S I S H S R T E D E T R T Q I L S I K K | |
| 1261 | AAGTTACCTCTGAGGATCTCAAGCGCAGCTATGTCTGTGCTAGAAAGTGCCAAAGGCG | 1320 |
| | V T S E D L K R S Y V C H A R S A K G E | |
| 1321 | AAGTTGCCAAAGCAGCCAAGGTGAAGCAGAAAGGTAATAGATGCGGTCAGTGATGAATCT | 1380 |
| | V A K A A K V K Q K G N R C G Q * | |
| 1381 | CTCAGCTCCAAATTAACATTTGTGGTGAATAAGGACAAAAGGAGAGATTGAGAACAAGAGA | 1440 |
| 1441 | GCTCCAGCACCTAGCCTGACGGCATCTAACCCTAGTAATGAATCAAACCTTAAATGAAAA | 1500 |
| 1501 | ATATGAAAGTTTTCATCTATGTAAGATACTCAAAATATTGTTTCTGATATTGTTAGTACC | 1560 |
| 1561 | GTAATGCCCAAATGTAGCTAAAAAAATCGACGTGAGTACAGTGAGACACAATTTTGTGTC | 1620 |
| 1621 | TGTACAATTATGAAAAATTAAAAACAAAGAAAATATTCAAAGCTACCAAAGATAGAAAAA | 1680 |
| 1681 | ACTGGTAGAGCCACATATTGTTGGTGAATTATTAAGACCCTTTTAAAAATCATTTCATGGT | 1740 |
| 1741 | AGAGTTTAAAGAGTCATAAAAAAGATTGCATCATCTGACCTAAGACTTTTCGGAATTTTCC | 1800 |
| 1801 | TGAACAAATAACAGAAAGGGAATTATATACCTTTTAATATTATTAGAAGCATTATCTGTA | 1860 |
| 1861 | GTTGTAAACATTATTAATAGCAGCCATCCAATTGTATGCAACTAATTAAGGTATTGAAT | 1920 |
| 1921 | GTTTATTTTCCAAAAATGCATAATTATAATATTATTTTAAACACTATGTATCAATATTTA | 1980 |
| 1981 | AGCAGGTTTATAATATACCAGCAGCCACAATTGCTAAAATGAAAATCATTTAAATTATGA | 2040 |
| 2041 | TTTTAAATGGTATACACATGATTTCTATGTTGATAGTACTATATTATTCTACAATAAATG | 2100 |
| 2101 | GAAATTATAAAGCCTTCTTGTGCAAGTGCTGCTCTAAAAA | 2155 |

Figure 2A

Query: 303 MTLWCVVSLYFYGILQSDASERCDDWGLDIMRQIQVFEDEPARIKCPLFEHFLK+NYST 482
M LLW ++SL FYGILQS ASERCDDWGLDIMRQIQVFEDEPARIKCPLFEHFLK+NYST
Sbjct: 1 MGLLWYLMSLSFYGILQSHASERCDDWGLDIMRQIQVFEDEPARIKCPLFEHFLK+NYST 60

Query: 483 AHSAGI/TLIWYWTQDRDLEEPINFRLPENRISKEKDVLFWRPTLLNDTGNYTCMLRNTT 662
AHS+GI/TLIWYWT+QDRDLEEPINFRLPENRISKEKDVLFWRPTLLNDTGNYTCMLRNTT
Sbjct: 61 AHSSGI/TLIWYWTQDRDLEEPINFRLPENRISKEKDVLFWRPTLLNDTGNYTCMLRNTT 120

Query: 663 YCSKVAFFLEVVOKDSCFNPMKLPVHKLYIEYGIQRITCPNVDGYFPSSVKPTTTWYMG 842
YCSKVAFFLEVVOKDSCFNS M+ PVHK+YIE+GI +ITCPNVDGYFPSSVKP++TWY G
Sbjct: 121 YCSKVAFFLEVVOKDSCFNAMRFPVHKMYIEHGIHKITCPNVDGYFPSSVKPSVIWYKG 180

Query: 843 CYKIQNFNNVIPEGMNLISNNGNYTCVVYPENGRIFHL/TRLTVKVVGSPKNA 1022
C +I +F+NV+PEGMNLIS I L+SNNNGNYTCVVYPENGR FHL/TRLTVKVVGSPK+A
Sbjct: 181 CTEIVDFHNVLPPEGMNLISFFIPLVSNNNGNYTCVVYPENGRIFHL/TRLTVKVVGSPKDA 240

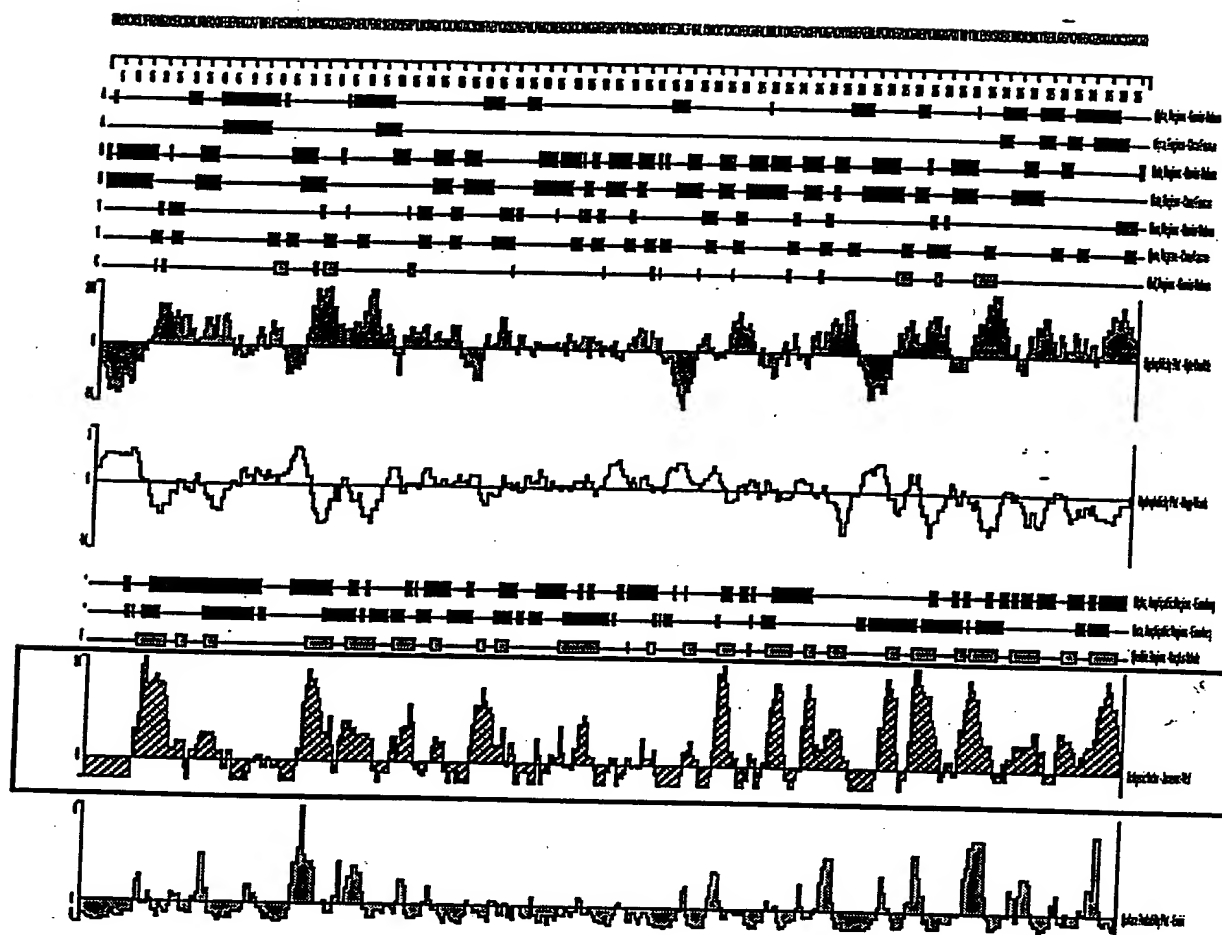
Query: 1023 VPPVIHSPNDHVVEKEPGEELLIPCVYFSFLMDSRNEVWWTIDGKKPDDITIDVTINE 1202
+PP I+SPND VVEKEPGEEL+IPC VYFSF+MDS NEVWWTIDGKKPDD+T+D+TINE
Sbjct: 241 LPPQIYSPNDRVVEKEPGEELVIPCXYFSFIMDSHNEVWWTIDGKKPDDVTVDITINE 300

Query: 1203 SISHSRTEDETRTQILSIKKVTSSEDLKRSYVCHARSAKGEVAKAAKVQK 1352
S+S+S TEDETRTQILSIKKVT EDL+R+YVCHAR+ KGE +AAKVQK
Sbjct: 301 SVSYSSTEDETRTQILSIKKVTPEDLRRNYVCHARNTKGEAEQAAKVQK 350

Figure 2B

1 TCTATGAGAAAGAACCAGGAGAGGAGCTACTCATTCCCTGTACGGTCTAT 50
|||||
1060 TCTATGAGAAAGAACCAGGAGAGGAGCTACTCATTCCCTGTACGGTCTAT 1109
51 TTTAGTTTTCTGATGGATTCTCGCAATGAGGTTTGGTGGACCATTGATGG 100
|||||
1110 TTTAGTTTTCTGATGGATTCTCGCAATGAGGTTTGGTGGACCATTGATGG 1159
101 AAAAAAACCTGATGACATCACTATTGATGTCACCATTAACGAAAGTATAA 150
|||||
1160 AAAAAAACCTGATGACATCACTATTGATGTCACCATTAACGAAAGTATAA 1209
151 GTCATAGTAGAACAGAAGATGAAACAAGAACTCAGATTTTGAGCATCAAG 200
|||||
1210 GTCATAGTAGAACAGAAGATGAAACAAGAACTCAGATTTTGAGCATCAAG 1259
201 AAAGTTACCTCTGAGGATCTCAAGCGCANTANTGTCTGTCATGCTAGAAG 250
||||| : : |||||
1260 AAAGTTACCTCTGAGGATCTCAAGCGCAGCTATGTCTGTCATGCTAGAAG 1309
251 TGCCAAAGGCGAAGTTGCCAAAGCAGCCAAGGTGAAGCAGAAAG 294
|||||
1310 TGCCAAAGGCGAAGTTGCCAAAGCAGCCAAGGTGAAGCAGAAAG 1353

Figure 3



MTLLWCVVSLYFYGILQSDASERCDDWGLDTMRQIQVFEDEPARIKCPLFEHFL
KFNYSTAHSAGLTLIWYWTRQDRDLEEPINFRLPENRISKEKDVLWFRPTLLND
TGNYTCMLRNTTYCSKVAFPLEVVQKDSCFNSPMKLPVHKLYIEYGIQRITCPN
VDGYFPSSVKPTITWYMGCYKIQNFNNVIPEGMNLISFLIALISNNGNYTCVVYP
ENGRTEHLTRTLTVKVVGSPKNAVPPVIHSPNDHVVEKEPGEELLIPCTVYFSF
LMDSRNEVWWTIDGKKPDDITIDVTINESISHSRTEDETRTQILSIKKVTSEDLKR
SYVCHARSAKGEVAKAAKVQKGNRCGQ.